

AMENDMENTS TO THE CLAIMS

This listing of claims will replace all prior versions, and listings, of claims in the application.

Listing of Claims:

Claim 1 (Canceled).

Claim 2 (Currently Amended): A cathode ray tube comprising:

a vacuum envelope including

a panel which has a substantially rectangular effective portion having a substantially flat outer surface and having a phosphor screen formed on an inner surface and which has a skirt portion provided along a peripheral part of the effective portion and extending substantially perpendicular to the effective portion, and

a funnel bonded to the skirt portion;

an electron gun arranged in a neck of the funnel, for emitting electron beams onto the phosphor screen; and

a reinforcing band attached round an outer surface of the panel, for fastening the skirt portion, the reinforcing band has a bent portion formed by folding outwardly the end portion of the reinforcing band on the effective portion outer surface side,

wherein when a distance in a direction of the tube axis from a bonding part of the panel and the funnel to an end of the reinforcing band on the outer surface side of the effective portion is represented by $[[a]]$ a, a distance in the direction of the tube axis from the bonding part of the panel and the funnel to an end of the bent portion on the electron gun side is represented by b, and a distance in the direction of the tube axis from the bonding part to a central position of the outer surface of the effective portion is represented by $[[h]]$ h, the reinforcing band is arranged to satisfy the following relationship:

$$a \geq 0.9h, b \geq 0.7h.$$

Claim 3 (Canceled).

Claim 4 (Currently Amended): A cathode-ray tube according to ~~claim 3~~ claim 2, wherein when a thickness of the effective portion at an outer peripheral position of the phosphor screen is represented by t and a thickness of the effective portion at a central position of the phosphor screen is represented by t_c , the effective portion has a portion which satisfies the following relationship:

$$t \geq 1.5t_c.$$

Claim 5 (Currently Amended): A cathode-ray tube comprising:

a vacuum envelope including a panel which has a substantially rectangular effective portion having a substantially flat outer surface and having a phosphor screen formed on an inner surface and which has a skirt portion provided along a peripheral part of the effective portion and extending substantially perpendicular to the effective portion, and a funnel bonded to the skirt portion;

an electron gun arranged in a neck of the funnel, for emitting electron beams onto the phosphor screen; and

a reinforcing band attached round an outer surface of the panel, for fastening the skirt portion,

wherein when a distance in the direction of a tube axis from the bonding part of the panel and the funnel to a mold matching line of the panel is represented by c and a distance in the direction of the tube axis from the bonding part to a central position of the

outer surface of the effective portion is represented by h , the panel is arranged to satisfy the following relationship:

$$c \geq 0.8h$$

and, the reinforcing band is attached round the skirt portion over the mold matching line.

Claim 6 (Currently Amended): A cathode-ray tube comprising:

a vacuum envelope including a panel which has a substantially rectangular effective portion having a substantially flat outer surface and having a phosphor screen formed on an inner surface and which has a skirt portion provided along a peripheral part of the effective portion and extending substantially perpendicular to the effective portion, and a funnel bonded to the skirt portion;

an electron gun arranged in a neck of the funnel, for emitting electron beams onto the phosphor screen; and

a reinforcing band attached round an outer surface of the panel, for fastening the skirt portion,

wherein the reinforcing band has a bent portion formed by folding outwardly the end portion of the reinforcing band on the outer surface side of the effective portion;

when a distance in a direction of the tube axis from a bonding part of the panel and the funnel of an end of the reinforcing band on the outer surface side of the effective portion is represented by a , when a distance in the direction of the tube axis from the bonding part of the panel and the funnel to the end of the bent portion on the electron gun side is represented by b , when a distance in the direction of the tube axis from the bonding part of the panel and the funnel to a mold matching line of the panel is represented by c and when a distance in the direction of the tube axis from the bonding part to a central position of

the outer surface of the effective portion is represented by h , the reinforcing band and the panel are arranged to satisfy the following relationships:

$$a \geq 0.9, b \geq 0.7h, c \geq 0.8h$$

and the reinforcing band is attached round the skirt portion over the mold matching line.

Claim 7 (Currently Amended): A cathode-ray tube according to claim 6, wherein when a thickness of the effective portion at an outer position of the phosphor screen is represented by t and a thickness of the effective portion at a central position of the phosphor screen is represented by t_c , the effective portion has a portion which satisfies the following relationship:

$$t \geq 1.5t_c$$

Claim 8 (Currently Amended): A cathode-ray tube comprising:

a vacuum envelope including a panel which has a substantially rectangular effective portion having a substantially flat outer surface and having a phosphor screen formed on an inner surface and which has a skirt portion provided along a peripheral part of the effective portion and extending substantially perpendicular to the effective portion, and a funnel bonded to the skirt portion;

an electron gun arranged in a neck of the funnel, for emitting electron beams onto the phosphor screen; and

a reinforcing band attached round an outer surface of the panel, for fastening the skirt portion,

wherein the reinforcing band is attached round the skirt portion over the mold matching line and has a bent portion formed by folding outwardly the end portion of the reinforcing band on the outer surface side of the effective portion; and

the panel has a part where an angle θ defined between the outer surface of the skirt portion from the mold matching line of the panel to the outer surface of the effective portion and a direction of the tube axis is zero; and

when a distance in a direction of the tube axis from a bonding part of the panel and the funnel to an end of the reinforcing band on the outer surface side of the effective portion is represented by a, when a distance in the direction of the tube axis from the bonding part of the panel and the funnel to an end of the bent portion on the electron gun side is represented by b, when a distance in the direction of the tube axis from the bonding part of the panel and the funnel to the mold matching line of the panel is represented by c and when a distance in the direction of the tube axis from the bonding part to a central position of the outer surface of the effective portion is represented by h, the reinforcing band and the panel are arranged to satisfy the following relationships:

$$a \geq 0.9h, b \geq 0.7h, c \geq 0.8h.$$

Claim 9 (Original): A cathode-ray tube according to claim 8, wherein the angle θ is zero, only at each of corners of the panel.

Claim 10 (Canceled).

Claim 11 (Currently Amended): A cathode-ray tube according to claim 8 ~~to~~ 10, wherein when a thickness of the effective portion at an outer peripheral position of the phosphor screen is represented by t and a thickness of the effective portion at a central position of the phosphor screen is represented by t_c , the effective portion has a portion which satisfies the following relationship:

$$t \geq 1.5 t_c.$$